Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Canceled)
- 2. (Canceled)
- 3. (Canceled)
- 4. (Canceled)
- 5. (Canceled)
- 6. (Canceled)
- 7. (Canceled)
- 8. (Currently Amended) A method of enhancing high contrast details of an input image for rendering it effectively on an output display medium comprising the steps of:

constructing a tone scale curve from the input image;

applying a <u>the</u> tone scale curve to the input image to produce a tone-scaled image;

applying a decomposition filter bank to the tone-scaled image to produce the low-pass tone-scaled image;

applying the decomposition filter bank to the input image to produce the high-passed input image in each spatial scale;

generating the contrast weight control signals from the high-passed input image in each spatial scale;

adjusting the high-passed input image in each scale according to said contrast weight control signals; and

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applying a reconstruction filter bank to the low-pass tone-scaled image and the adjusted high-pass input image to produce a contrast enhancement presentation image for rendering on an output display medium,

said step of generating the contrast weight control signals including the steps of:

applying a decomposition filter bank to the input image to produce a high-passed input image at a coarse scale;

computing a gradient amplitude of the high-passed input image at the coarse scale;

creating a mapping function wherein an output value T is large when the gradient amplitude at the coarse scale is moderate and the output value T is small when the gradient amplitude at the coarse scale is very small and very large; and

using the output value T as a mask image.

9. (Currently Amended) The method according to claim 8, wherein said constructing a tone scale curve includes:

applying a decomposition filter bank to the input image to produce a high-passed input image at a coarse scale;

computing a gradient amplitude of the high-passed input image at the coarse scale;

computing a binary edge map image where value 1 representing a pixel being the local maximum gradient magnitude along the gradient direction and value 0 represents other pixels;

computing an image pattern histogram from the pixels belong to the edge map with value 1 at the coarse scale;

finding a range that covers the most effective code values in the image pattern histogram; and, and

constructing the tone scale curve from the found range.

- 10. (Canceled)
- 11. (Canceled)

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12. (Canceled)

13. (Currently Amended) The method according to claim 8, wherein the step of using the output value T as a mask image is accomplished by contrast weight control signals are generated by the steps of:

applying a decomposition filter bank to the input image to produce a high-pass input image at a coarse scale;

computing a gradient amplitude of the high-passed input image at the coarse scale;

creating a mapping function that the output value T is large when the gradient amplitude at the coarse scale is moderate and the output value T is small when the gradient amplitude at the coarse scale is very small and very large; and

creating a mask image of the weight factor G such that G produces large gain factors for pixels in each scale whose corresponding gradient amplitudes at the coarse scale have large T values and small gain factors for pixels in each scale whose corresponding gradient amplitudes at the coarse scale have small T values.

- 14. (Currently Amended) The method according to claim 8, wherein the high-pass filters used in the decomposition filter bank are edge detectors at different spatial scales.
 - 15. (Canceled)
 - 16. (Canceled)

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